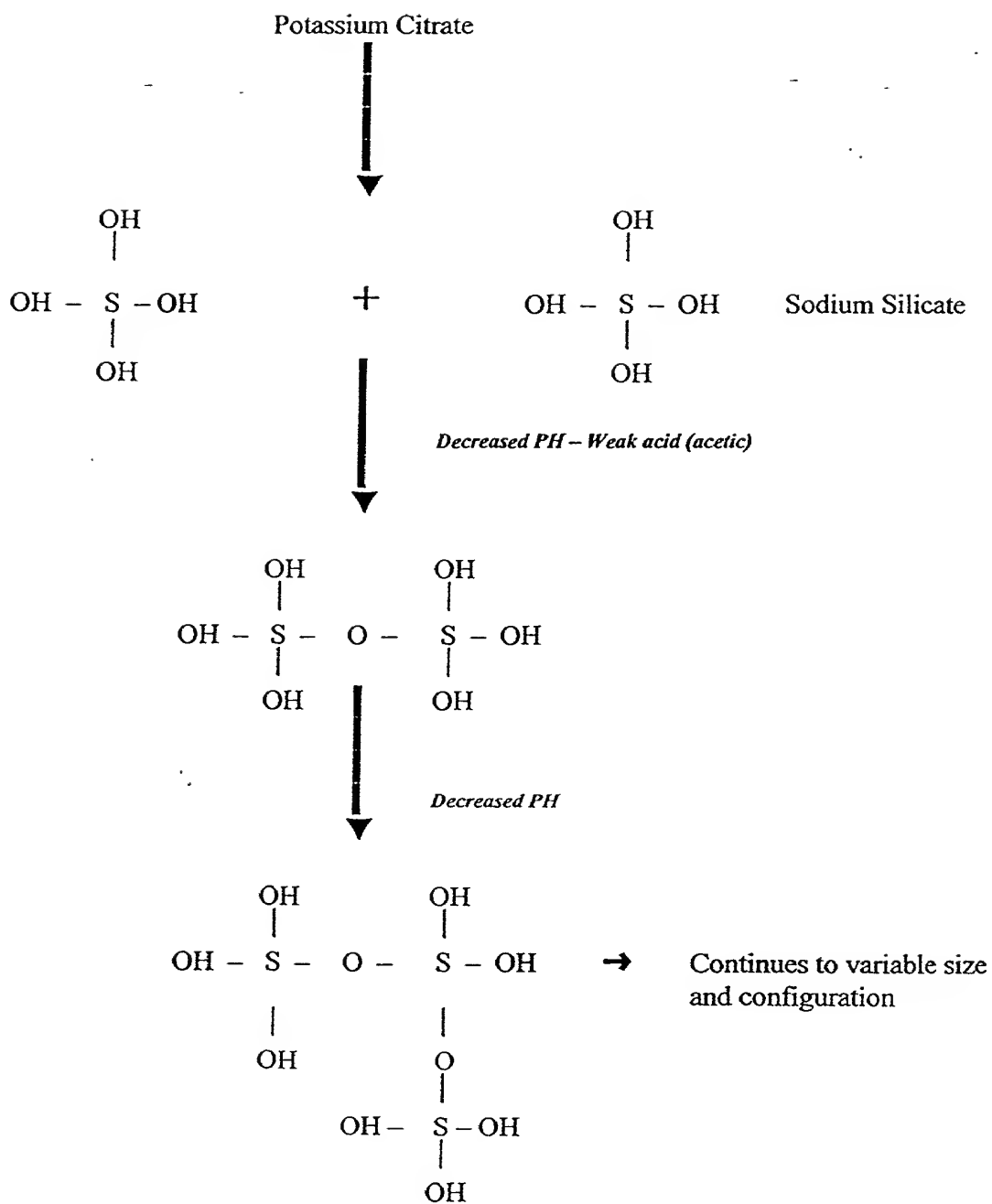


Fig. 1



**Fig. 2**

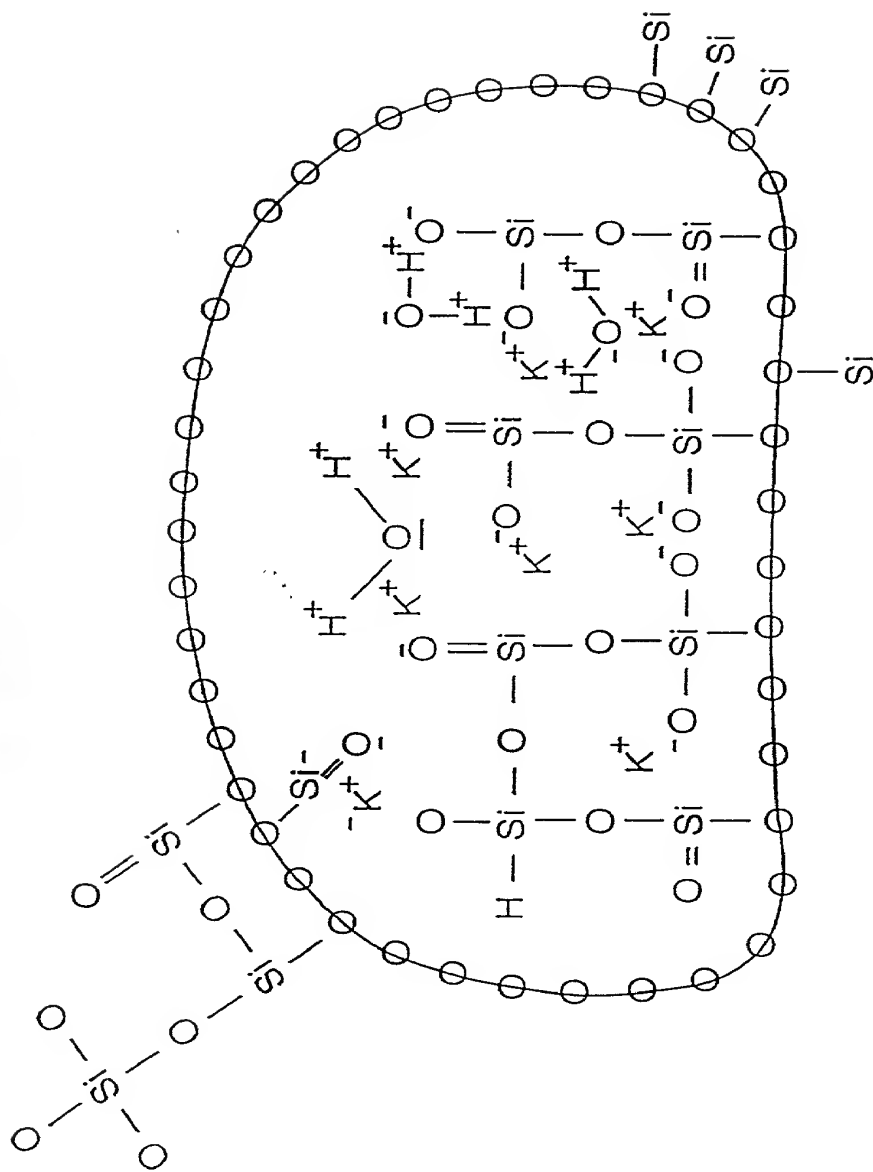


FIG. 3

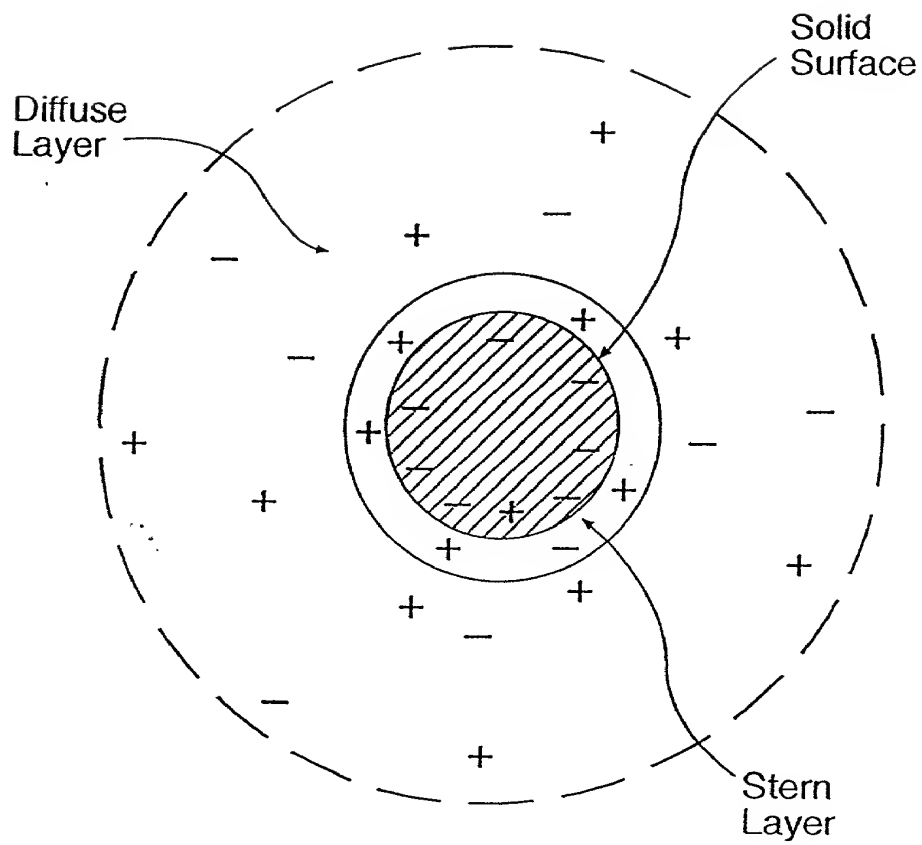


FIG. 4



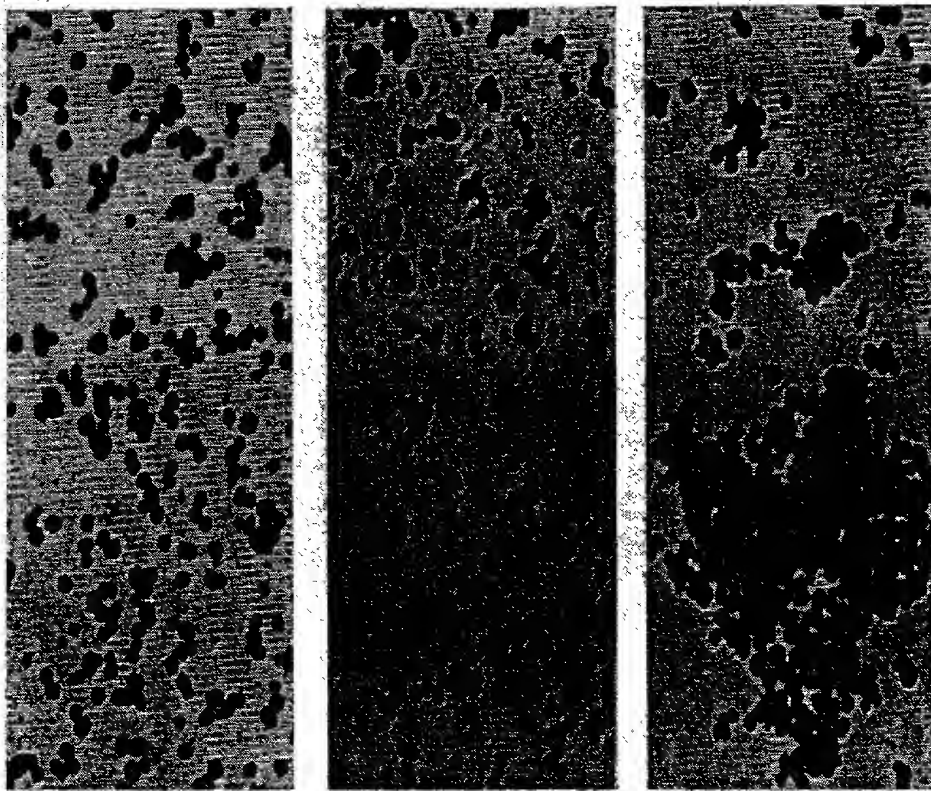


FIG. 26.—Electron micrographs showing stages of aggregation of 35 milli-micron silica particles: *left*, colloidal aggregates; *center*, aggregates approaching colloidal size; *right*, supercolloidal aggregates or precipitate.

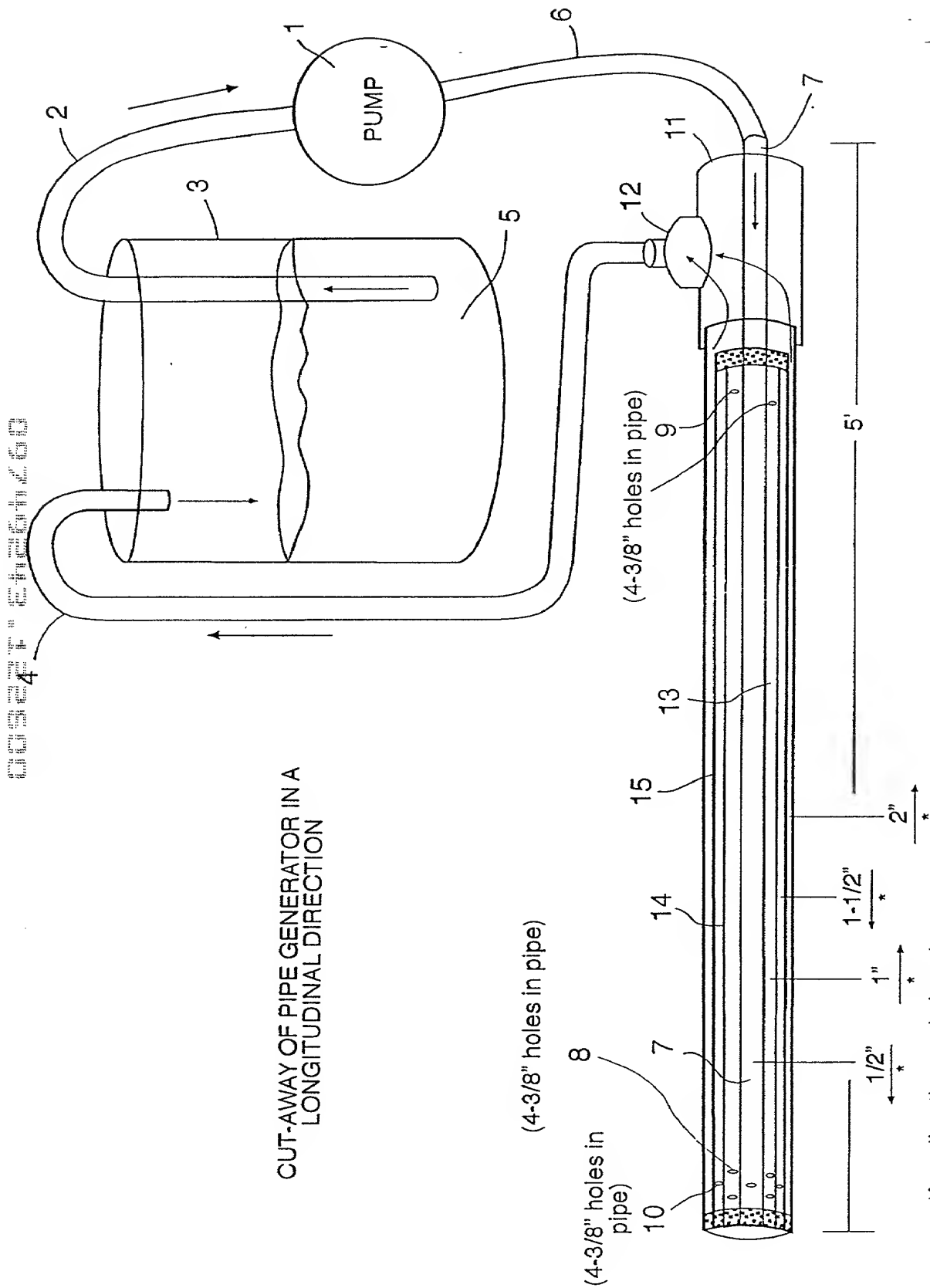
FIG. 6

bound water  
colloid particle



6a.

Electron photomicrograph of the colloid of the  
invention. 5a.



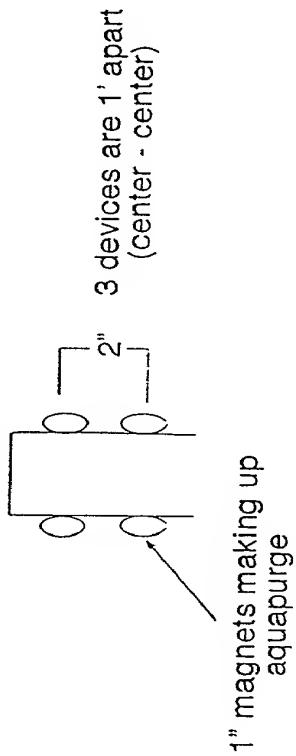
CUT-AWAY OF PIPE GENERATOR IN A LONGITUDINAL DIRECTION

FIG. 7

\*low direction and pipe size



# SECTION OF GENERATOR



## CUT-AWAY OF PIPE GENERATOR IN A LONGITUDINAL DIRECTION

(A)

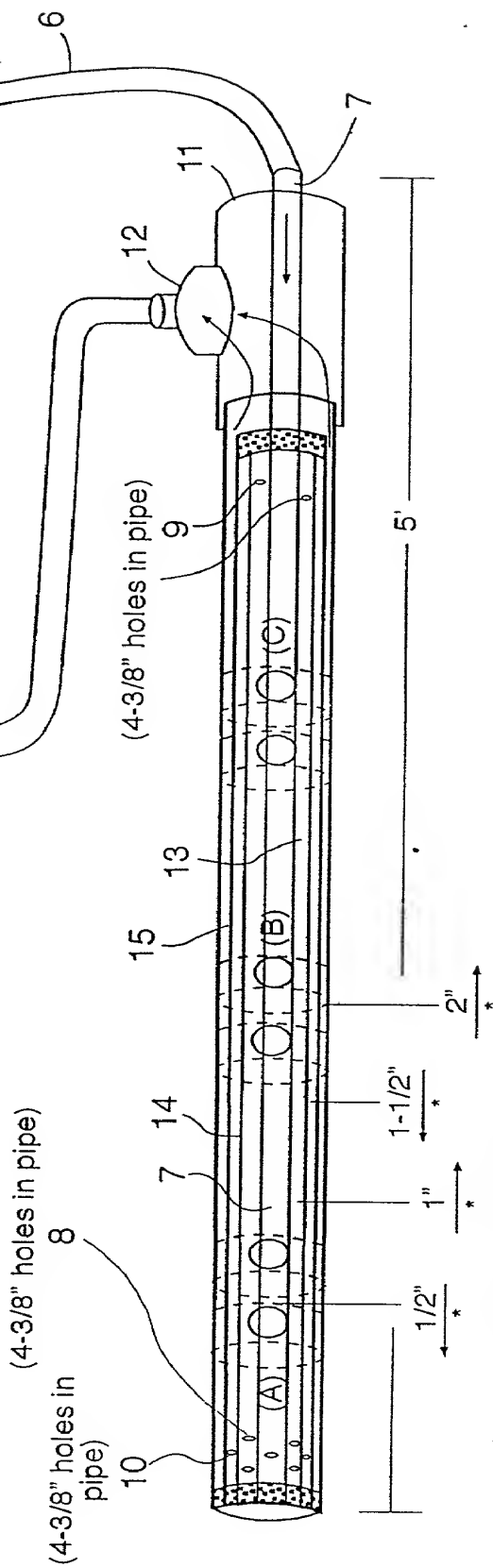
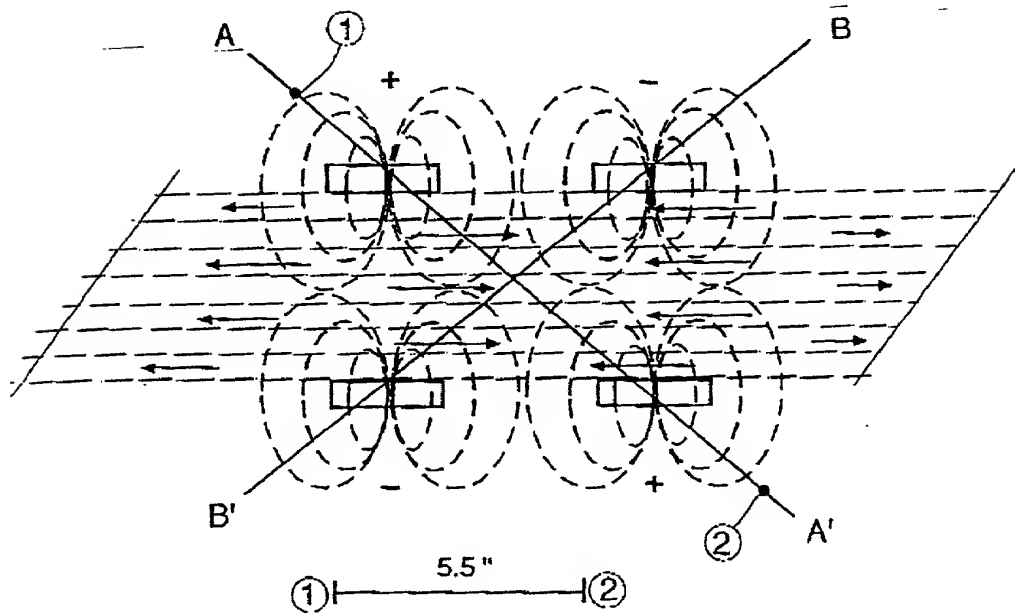
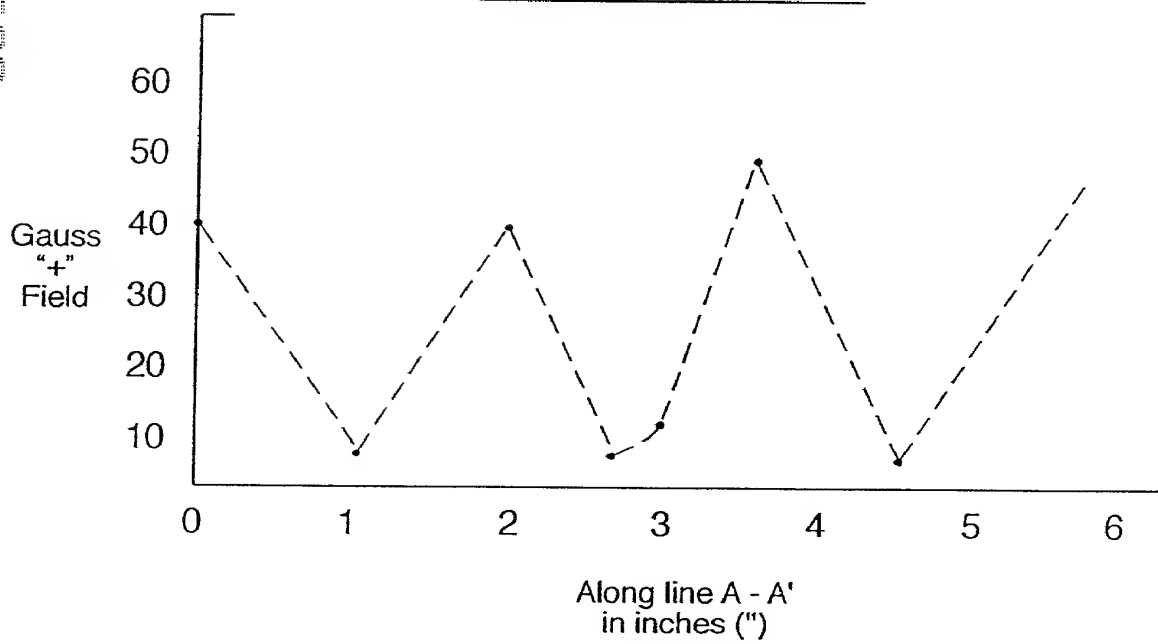


FIG. 8

Cross sectional view of counter current generator of the invention  
with lines A-A' and B-B' noted for measurement purposes.



Plot of Gradients in "z" axis



**FIG. 9**

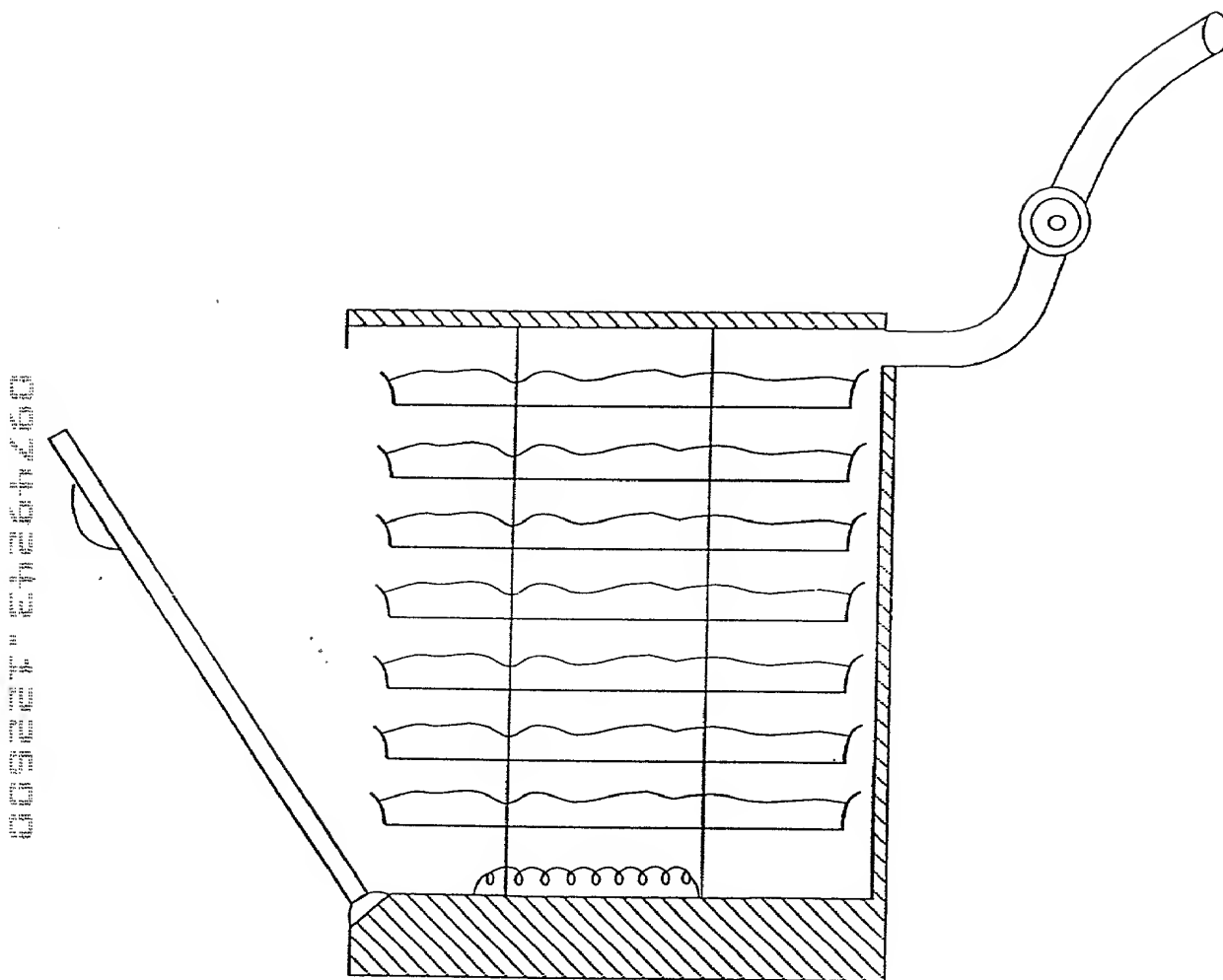


FIG. 10

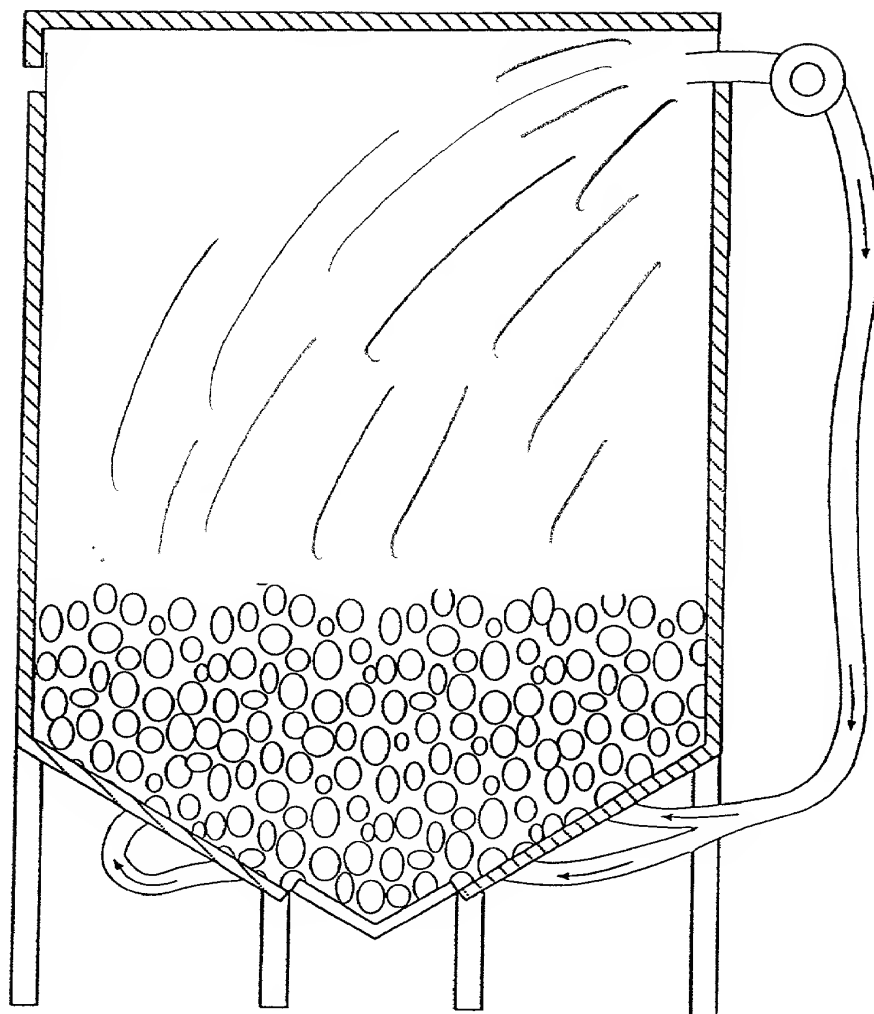


FIG. 11

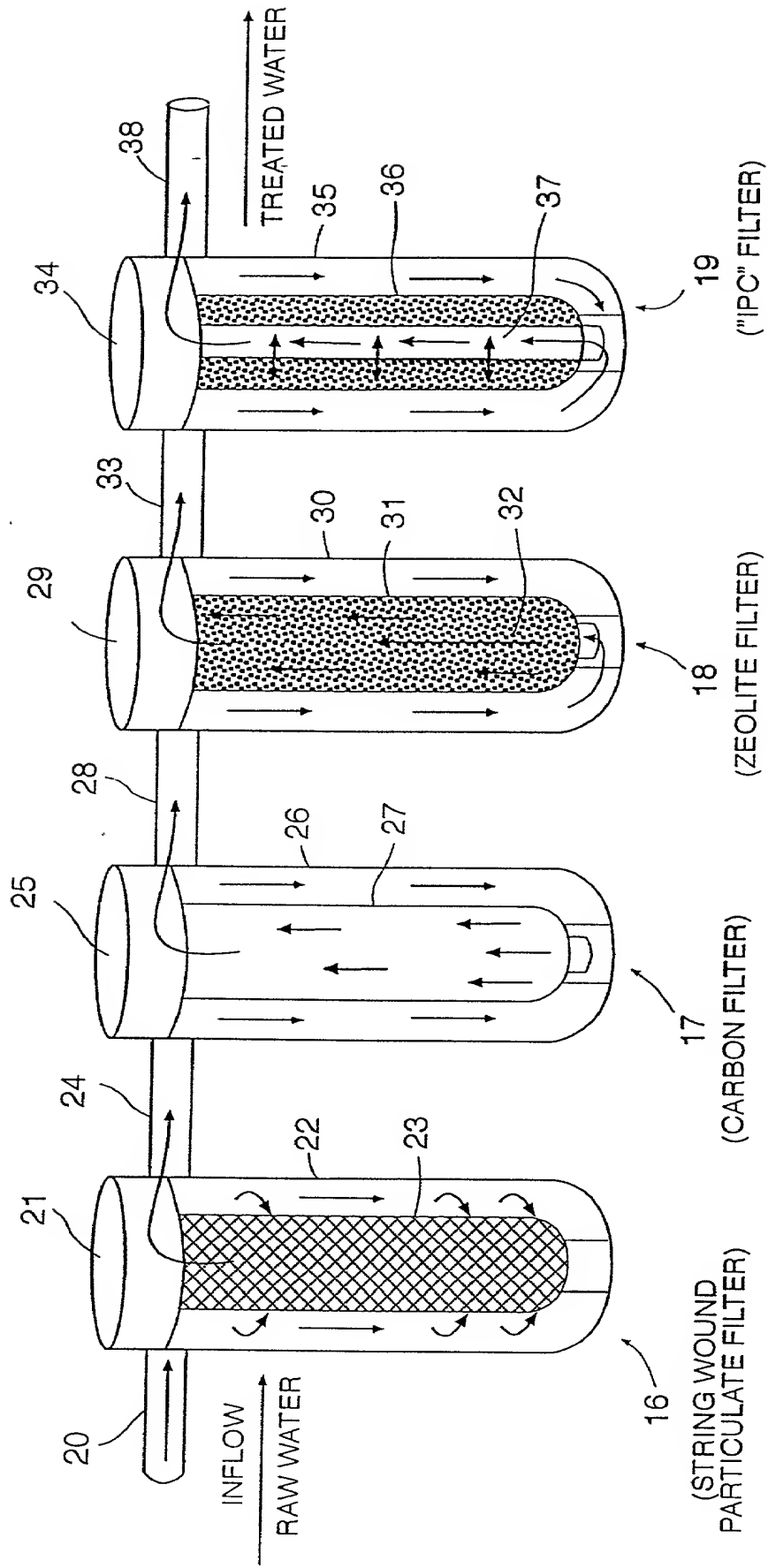


FIG. 12

# HOME WATER SOFTENER, WITH AUTOMATIC CONTROLLER FOR REGENERATION AND SERVICE

## IPC CONVERSION

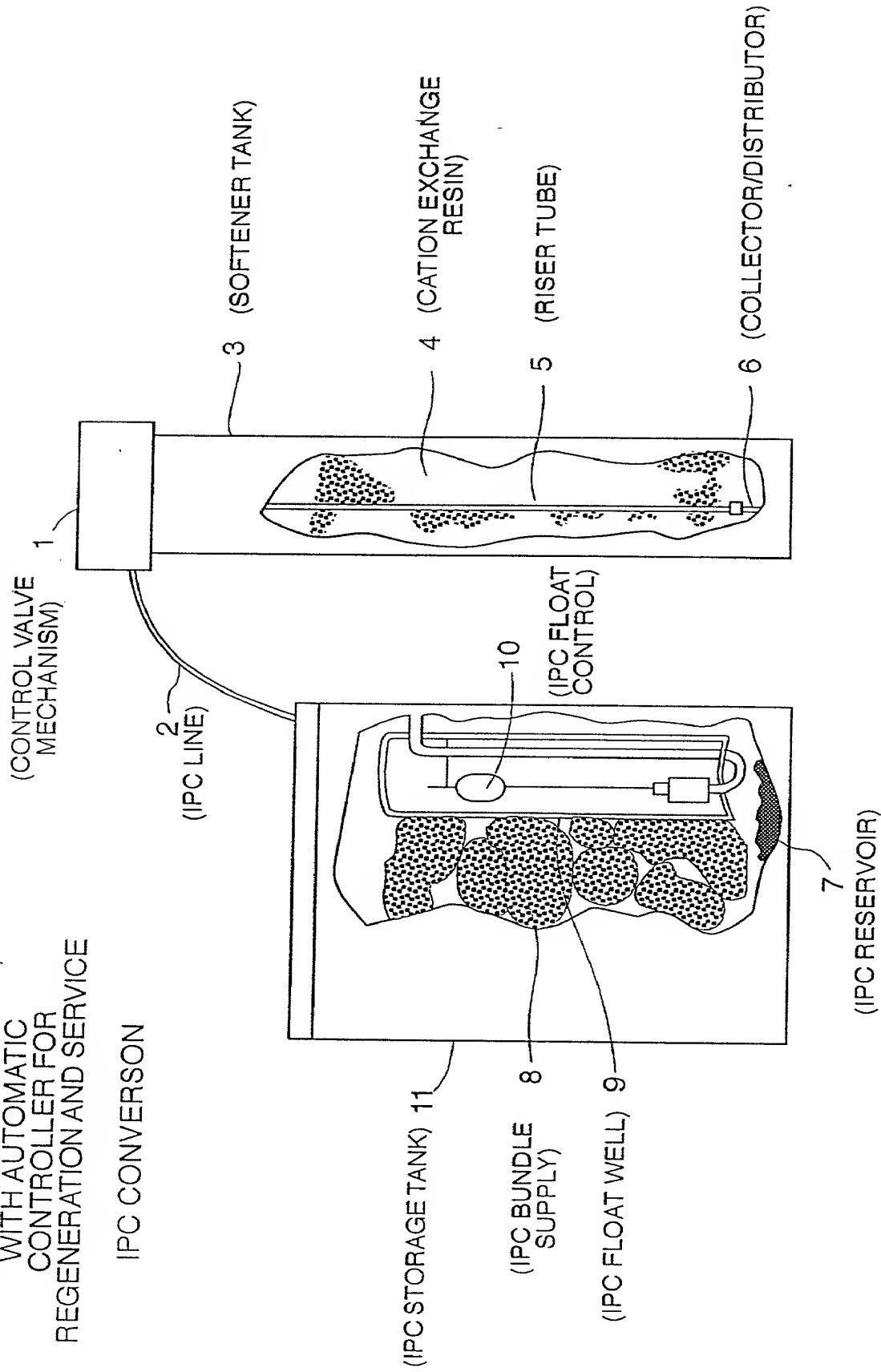


FIG. 14

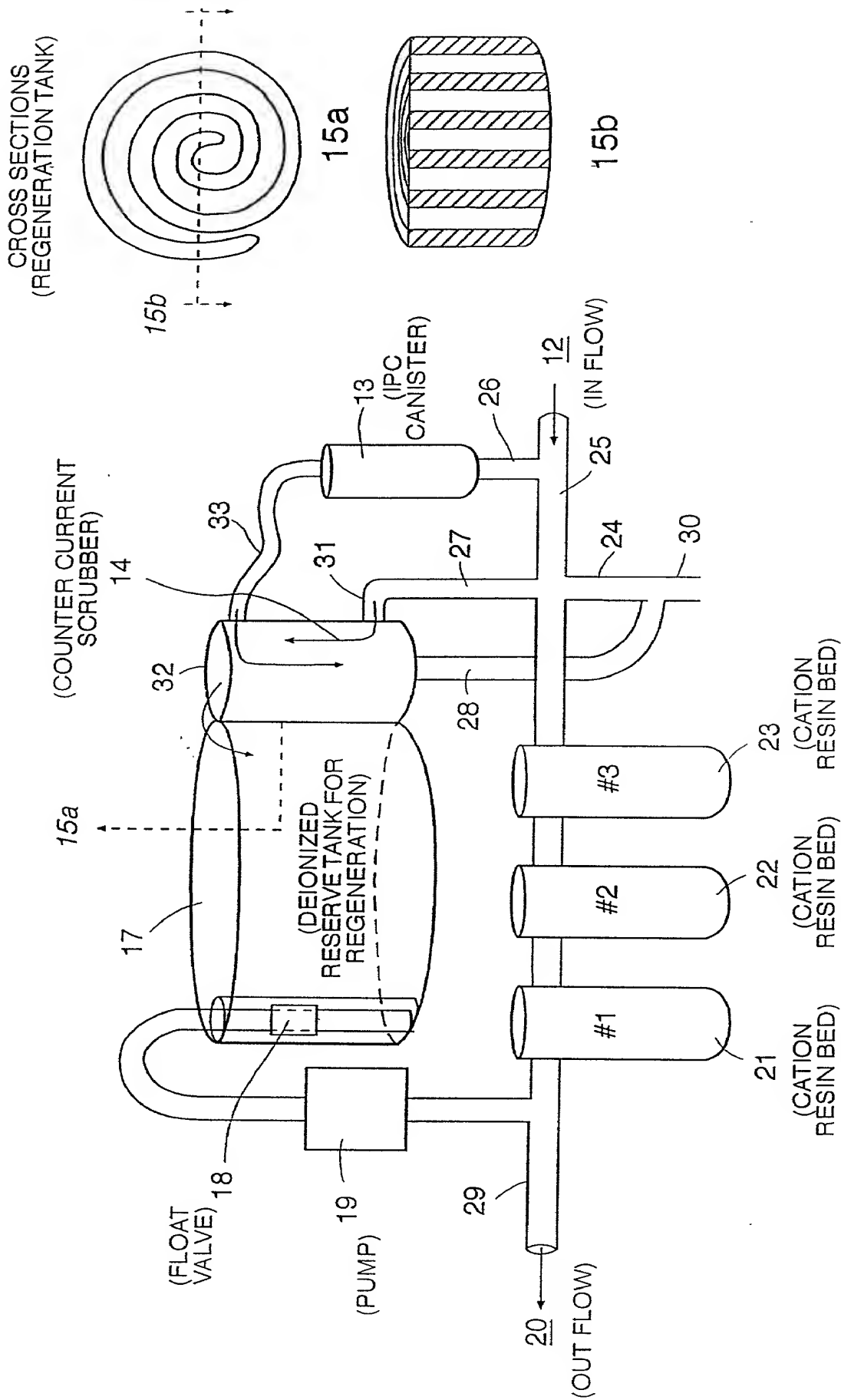


FIG. 15

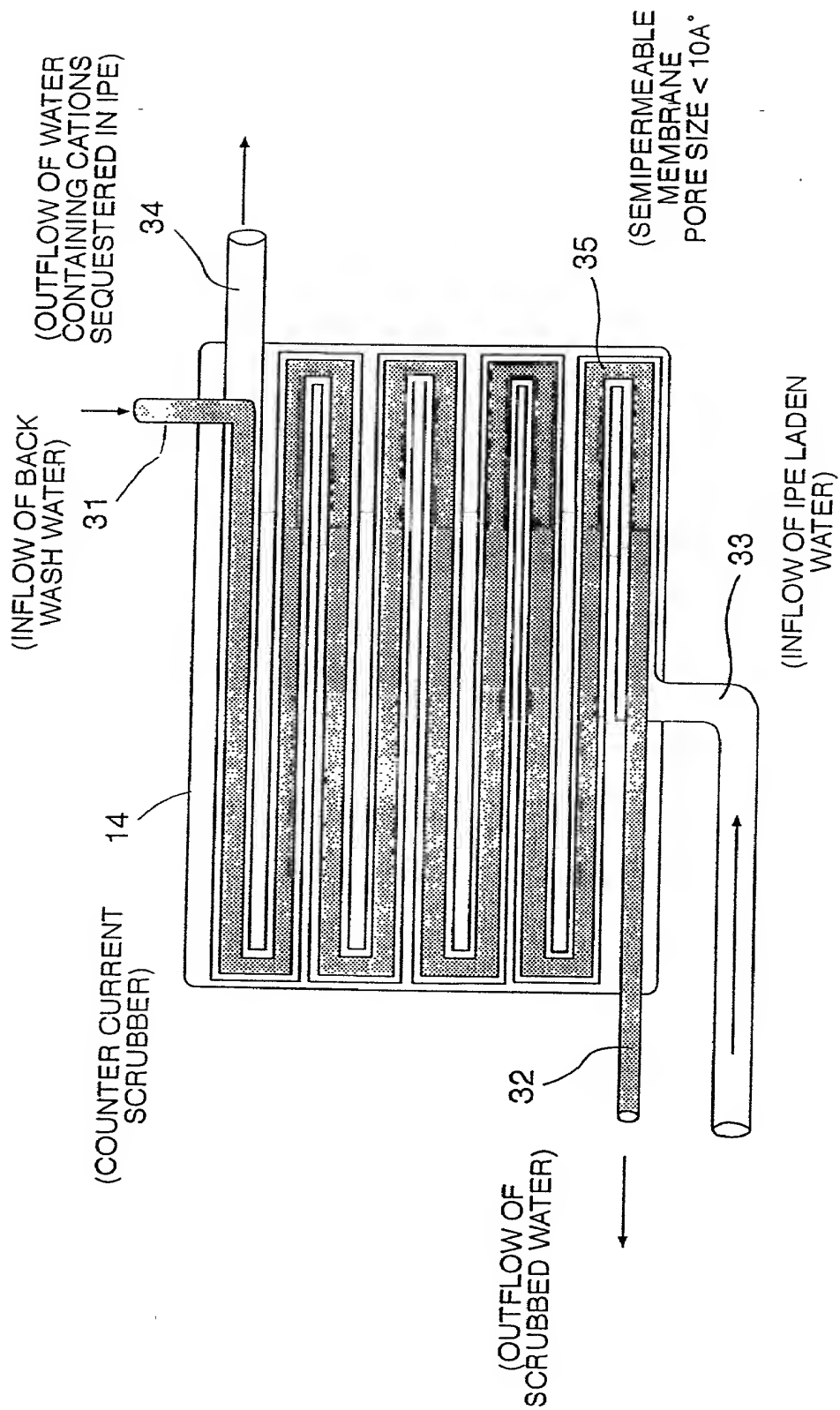


FIG. 16



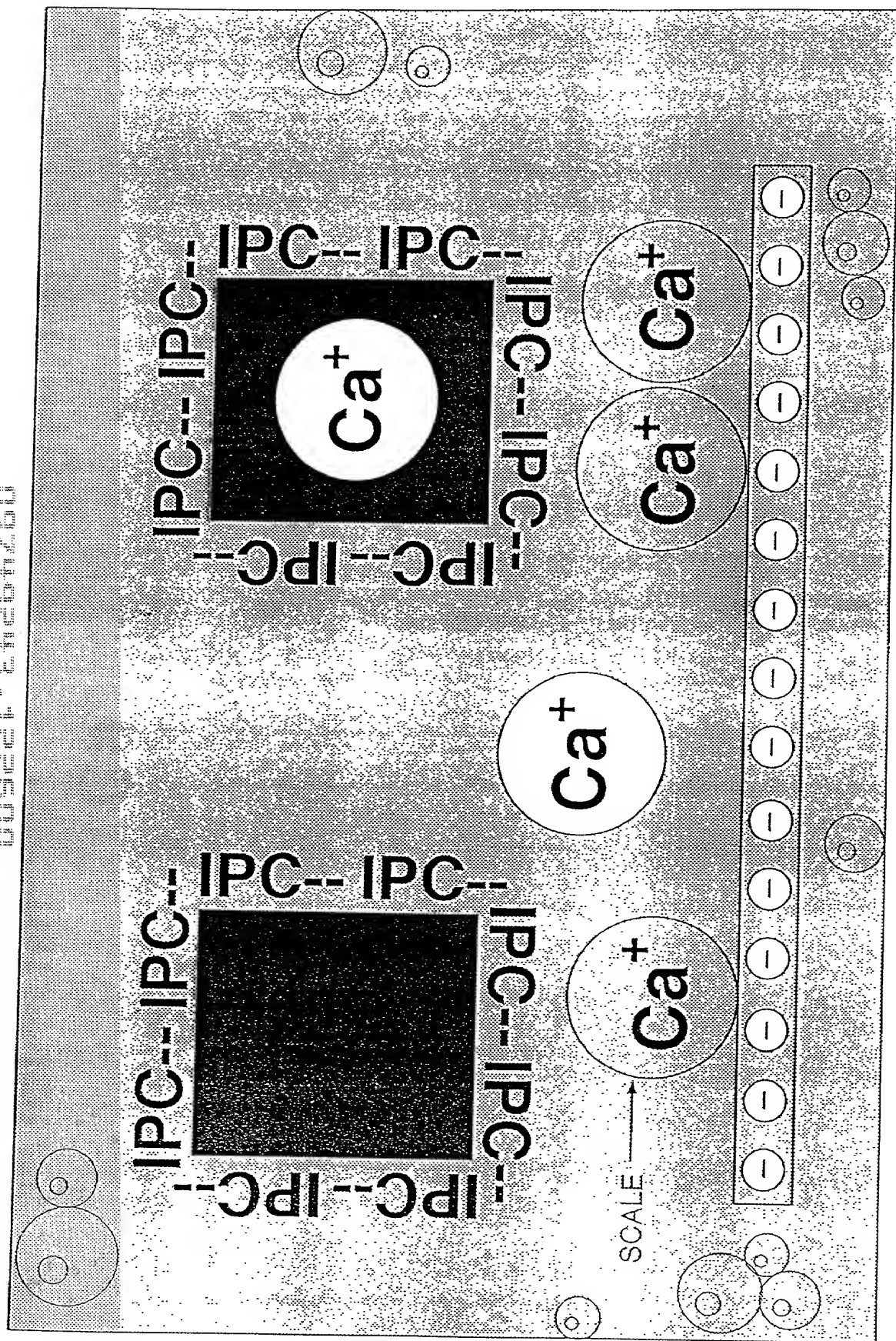


FIG. 17

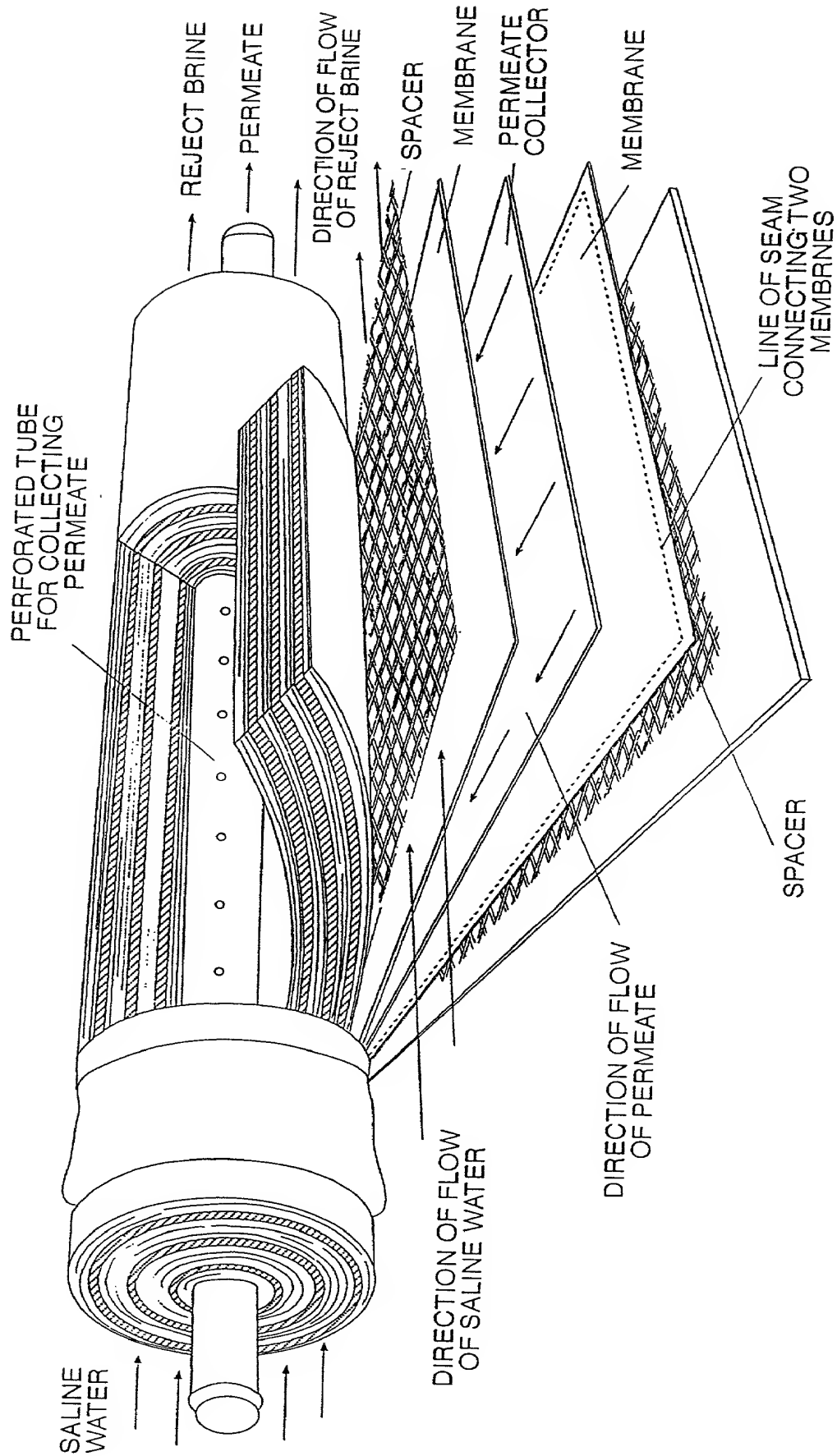


FIG. 18

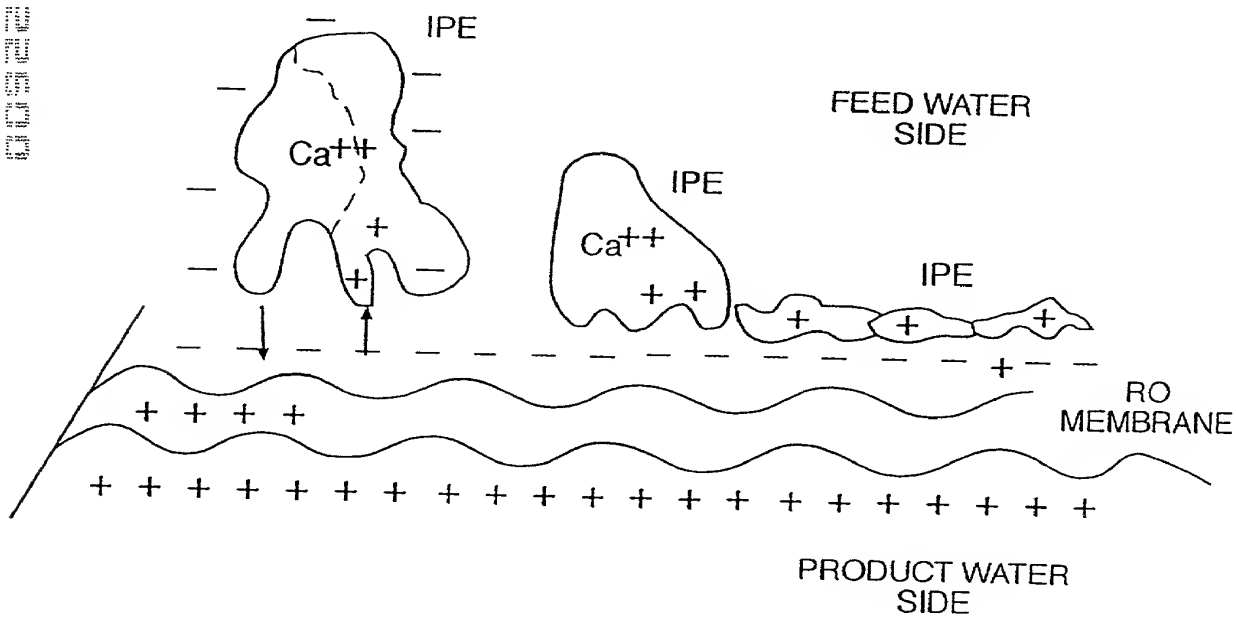
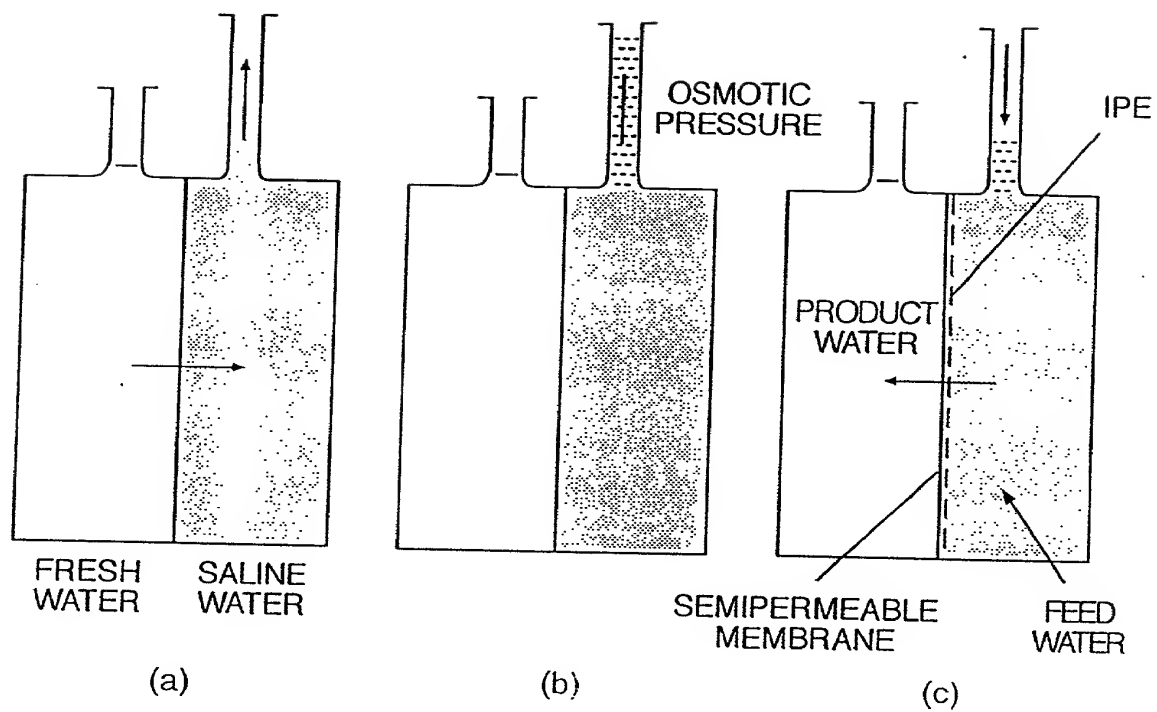


FIG. 19

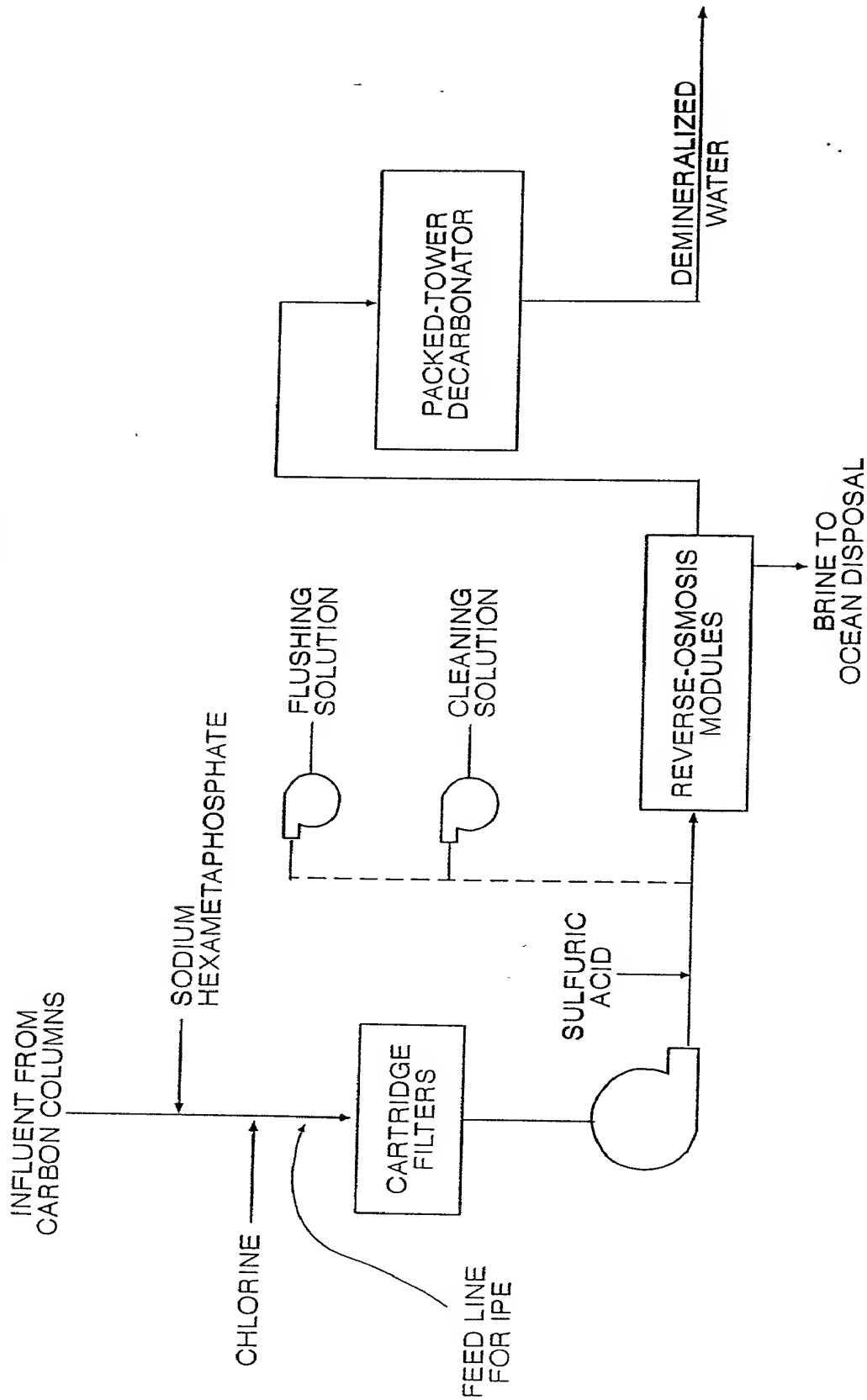


FIG. 20